

Math Out of the Box® Fifth Grade Set

Math Out of the Box® is based on the latest research about how children learn. A team of teachers, directed by specialists in math and science reform, worked together to develop, field-test, revise, and complete the highest-quality lessons and materials based on the NCTM Principles and Standards for School Mathematics. Each Algebra, Geometry, and Measurement module offers 20 classroom-tested lessons, for approximately 4-6 weeks of instruction. Number Concepts modules are separated into 2 units with 2 manuals that both provide 20-30 classroom-tested lessons, each for approximately 9 weeks of instruction. All modules are developed around a central mathematical theme, materials provided equip one class of 30 students, and is correlated to Kentucky's Program of Studies.

Contract Price

\$3,556.80

Grade

5

TYPE

P2

Copyright

2009

Author

Clemson University

Edition

1st

Content

Mathematics

ReadabilityAccessibility

Nimas MathML

Research

<http://www.mathoutofthebox.org/research/researchbase.shtml>

Teacher Edition

9781435001879	\$189.95
Developing Algebraic Thinking: Steps and Distance Teacher's Guide	
9781435001992	\$189.95
Developing Geometric Logic: Conjectures and Transformations Teacher's Guide	
9781435002111	\$189.95
Developing Measurement Benchmarks: Tools and Time Teacher's Guide	
9781435001541	\$209.95
Developing Number Concepts: Values and Variables Teacher's Guide (A)	
9781435001572	\$189.95
Developing Number Concepts: Values and Variables Teacher's Guide (B)	

Essential Items

9780892784844	Nimas MathML	\$655.95
Developing Measurement Benchmarks: Tools and Time Module		
9780892784530	Nimas MathML	\$850.95
Developing Algebraic Thinking: Steps and Distance Module		
9781435001589	Nimas MathML	\$889.95
Developing Number Concepts: Values and Variables Module (A/B)		
9780892784714	Nimas MathML	\$1,159.95
Developing Geometric Logic: Conjectures and Transformations Module		

Ancillary Items

Calculator Set B	\$219.95
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Free with Purchase items

Premium Content

<http://www.carolinacurriculum.com/login.asp>

Evaluation Tool for Basal Instructional Materials
Mathematics (2009 – 2015)

Provided by the Publisher	ISBN 9781435003224		Publisher - Carolina Curriculum Publishing	
	Math Out of the Box® Fifth Grade Set			
	Type - P2	Author - Clemson University		
	Copyright - 2009	Edition - 1st	Readability -	
	Course - Mathematics		Grade(s) - 5	
	Teacher Edition ISBN if applicable..... 9781435001879			

Overall Recommendation:

Recommended as BASAL

Overall Strengths, Weaknesses, Comments:

if this box is not checked, the evaluators have
chosen NOT recommend as basal

[Click here to enter text.](#)

NIMAC Accessibility NML

Ancillary Yes

Free with Purchase Yes

Research Yes <http://www.mathoutofthebox.org/research/researchbase.shtml>

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CRITERIA

This basal resource ...

A. Encompasses KY Content Standards & Grade Level Expectations	Strong Evidence
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Text is designed to be used in an elective course outside the Program of Studies

1) Includes the 5 Big Ideas of mathematics to the following extent:

- | | |
|--|-------------------|
| a) Number Properties and Operations | Strong Evidence |
| b) Measurement | Strong Evidence |
| c) Geometry | Moderate Evidence |
| d) Data Analysis and Probability | Strong Evidence |
| e) Algebraic Thinking | Strong Evidence |

2) Addresses content-specific enduring understandings from the related Program of Studies standards.	Strong Evidence
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3) Addresses content-specific skills and concepts from the related Program of Studies standards.	Strong Evidence
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4) Content addressed is current, relevant and non-trivial	Strong Evidence
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5) Provides opportunities for critical thinking/reasoning	Strong Evidence
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6) Strengths, Weaknesses, Comments:

- Specific strengths-which areas/concepts are covered exceptionally well?

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- Specific weaknesses-which areas/concepts would likely require supplementing?

The strengths of the program are student inquiry and higher level thinking throughout the program. A joy to review and see how students can investigate and bring real-world to a Math classroom setting. (popcorn!) Activities were relevant and engaging including Home Connection assignments. Once we were able to navigate the teacher guide activities and teacher preparation became more comfortable for us to understand.

Weaknesses seen were in Data Probability embedded throughout the other four strands. No student record book for each strand. Students will need to purchase a journal book for the entire program. We couldn't find some of the basic Measurement vocabulary (perpendicular, intersecting lines, point, line segment...)

B. Functionality & Suitability

Strong Evidence

1) Suitability

Strong Evidence

- Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.

2) Content quality

Strong Evidence

- Free from factual errors
- Content is presented conceptually when possible—more than a mere collection of facts
- Content included accurately represents the knowledge base of the discipline
- Theories/scientific models contained represent a broad consensus of the scientific community
- Interconnections among mathematical topics

3) Connections to Literacy

Strong Evidence

- Employs a variety of reading levels and is grade/level appropriate
- Use of multiple representations-concrete, visual/spatial, graphs, charts, etc.
- Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.
- Student text provides opportunity to integrate reading and writing
- Uses vocabulary that is age and content appropriate
- Focuses on critical vocabulary vs. extensive lists
- Identifies key vocabulary through definitions in both text and glossary
- The text is engaging and facilitates learning
- Embedded activities enhance the understanding of the text

Note: may apply to either student or teacher editions

4) Connections to Technology

Little or No Evidence

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data
- Embeds web links as a mathematics resource.

5) Support for Diverse Learners

Strong Evidence

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms
- Challenge for gifted and talented students
- Support for students with learning difficulties

Note: may apply to either student or teacher editions

6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

This program is awesome for differentiated learning styles of many students. The program is

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engaging, hands-on, teacher friendly, parent friendly and exciting daily for students to explore.
The only technology we could find was the use of a calculator.

C. Supports Inquiry and Skill Development

Strong Evidence

1) Promotes Inquiry, research and Application of Learning

Strong Evidence

- Provides opportunities for inquiry and research that includes activities such as gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions, formulating authentic questions to deepen and extend mathematical reasoning.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, generalizing, justifying, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, number lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.

Note: may apply to either teacher or student edition

2) Skill Development

Strong Evidence

- Provides opportunities to make sense of all mathematics
- Provides opportunities to recognize, create, and extend patterns.
- Provides opportunities for critical thinking and reasoning.
- Provides opportunities to justify/prove responses.
- Provides opportunities to ask deeper questions.
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving

Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

[Click here to enter text.](#)

D. Supports Best Practices of Teaching and Learning

Strong Evidence

1) Engages Students

Strong Evidence

- Includes content geared to the needs, interests, and abilities of all students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated

Note: may apply to either teacher or student edition

2) Uses Assessment to Inform Instruction

Moderate Evidence

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels

Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

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Our concern is regarding specific assessment throughout each strand. The Values and Variables strand included a student record book with on-going reflective practice and connected practice in both Modules A & B along with home connections relevant to the real world. The other strands only included assessment within the teacher's guide which could be copied. Lots of teacher observation and questioning techniques.

E. Has an Organization/ Format that Supports Learning and Teaching	Moderate Evidence
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|--|--------------------------|
| 1) Organizational Quality <ul style="list-style-type: none"> • Print and/or electronic materials present minimal barriers to learners, but also add encouragement for students to stretch and make further explorations. • Presents chapters/lessons in an organized and logical sequence • Provides clearly stated objectives for each lesson. • Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability. • Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components, interactive software, calculators, physical and virtual manipulatives) as either student or teacher resources • Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards. • Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively • Uses grade-appropriate type size • Included media are durable, easy to use and have technical merit • Construction appears to be durable and able to withstand normal use | Moderate Evidence |
|--|--------------------------|

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| 2) Essential Components (beyond student and teacher text) <ul style="list-style-type: none"> • Items identified as essential components support the learning goals and concept coverage of the basal | Strong Evidence |
|--|------------------------|

- 3) Strengths, Weaknesses, Comments:**
- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Program is organized well within the teacher guide book, easy to use icons to find information.
Lesson format in guide book clear and precise.

F. Has available Ancillary/ Gratis Materials	<i>Note: The decision whether to recommend or not recommend this resource as a Little or No Evidence basal should not be influenced by Section F</i>
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|--|--|
| 1) Ancillary/Gratis Materials <ul style="list-style-type: none"> • Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated). • Are well-organized and easy to use • Provide substantive learning opportunities and are congruent with student learning goals • Provide opportunities for high-level thinking, assessment, and/or problem solving • Provides opportunities for intervention. | |
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| 2) Strengths, Weaknesses, Comments: <ul style="list-style-type: none"> • Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards. | |
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It would be helpful if company added technology component to enhance curriculum (i.e. CD, games, skill practice.)